

# EXHIBIT 34

SUPERIOR COURT OF NEW JERSEY  
LAW DIVISION - MIDDLESEX COUNTY  
DOCKET NO. MID-L-003809-18AS

KAYME A. CLARK and  
DUSTIN W. CLARK,

Plaintiffs,

v.

JOHNSON & JOHNSON, et al.,  
Defendants.

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VIRTUAL  
DEPOSITION UPON  
ORAL EXAMINATION  
OF  
WILLIAM E. LONGO  
Ph.D.  
(VOLUME II)

TRANSCRIPT of the stenographic notes  
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<p style="text-align: right;">Page 180</p> <p>1 chrysotile structures on the new analyses than they 2 were on the old analyses? 3 A. Sometimes it's smaller, sometimes 4 it's the same, sometimes it's greater. I haven't 5 really sat down, but you would have to go back to 6 the same samples so you can compare apples to 7 apples. 8 Q. Have you -- 9 A. Potentially you can see less. It 10 just depends on how evenly distributed the 11 chrysotile bundles had in the sample. 12 Q. Are there any Johnson &amp; Johnson 13 samples for which you've done these chrysotile by 14 PLM analyses using both your old microscope versus 15 the new Leica microscopes? 16 A. No. 17 Q. Okay. And I think the last time 18 around we were talking, you were saying that the 19 visual estimation of percentage of concentration of 20 chrysotile from your view was typically more 21 reliable than things like point -- point counting 22 for the determination of the quantity of chrysotile 23 by PLM. 24 Is that your view? 25 A. Yes.</p>	<p style="text-align: right;">Page 182</p> <p>1 wouldn't consider that a point counting method, 2 would you? 3 A. Actually, point counting is, you have 4 to do, randomly, look for things. For structures 5 per gram, you actually scan areas, and you're not 6 going to an area and you're just looking at it, one 7 spot. You will look in that whole area over, you 8 know -- you have to come to one point, move it, and 9 if it's not right there, right under where you're 10 looking, you don't count it. Could be just off to 11 the side. 12 Q. Um-hum. 13 And when your lab performs the 14 percent, I guess it's the percent area calculations 15 for chrysotile in Johnson's Baby Powder samples that 16 you've analyzed, your lab uses some standard 17 reference area percentage charts as a reference 18 point for estimating the chrysotile percentages in 19 those products. Is that right? 20 A. No, that doesn't work for these 21 products because fibers are so small. That really 22 was designed for asbestos-added products. 23 Q. Okay. 24 A. What you can look at is the, you 25 know, RG-144, where the number of structures you had</p>
<p style="text-align: right;">Page 181</p> <p>1 Q. Okay. And why is that? 2 A. Well, when point counting first came 3 out -- well, when they said, you know, you can point 4 count and do this, we were doing a lot of property 5 damage cases in which we were analyzing 6 fireproofings made by W.R. Grace and others. And 7 those formulations are pretty consistent, 10 percent 8 chrysotile. 9 When we would have analysts do point 10 counting on it, just like they stayed, it was 11 never -- it never matched up to the accuracy that we 12 were getting with volume estimates because you go to 13 a random point, and say there's nothing in that 14 point, you know? Right next to it you can have one 15 that you're not counting. 16 And actually, the 22262-1, I think it 17 is, doesn't recommend point counting if you've got 18 materials that have different heights of samples, 19 different heights of minerals such as, you know, a 20 platy talc with a bundle in it is going to be 21 higher. So we just -- we have never done point 22 counting. We did it initially. It takes too long 23 and it's inaccurate, in my opinion. 24 Q. And this chrysotile structure per 25 gram calculation that your laboratory performed, you</p>	<p style="text-align: right;">Page 183</p> <p>1 were different percentages is more helpful. We just 2 have to start -- you know, we have the standards 3 made up. We're just in the process of redoing it 4 with SG-210, so that -- 'cause I think that is a 5 better indicator of the size of what we're seeing. 6 Q. Okay. So, how does your laboratory 7 actually go about the process of calculating a 8 percent of chrysotile by weight; for example, if I 9 go to -- we can just go back to Exhibit 11A, that 10 71211 report, where you have these, you know, .001 11 to .002, .0009 to .001 percentages, what's the 12 process that your analyst goes through to assign the 13 specific down to, you know, a thousandth or a 14 10,000th of a percentage? What's the process they 15 go through to perform that calculation? 16 A. Well, a lot of it has to do with 17 experience and now they've been -- Paul Hess has 18 been doing it, actually, on this particular thing, 19 you know, five and a half years -- no, not that 20 long. Yeah, almost five and a half years. 21 They will look at the size of the 22 chrysotile structure and then they will look at the 23 area of where it sits, and then they will make an 24 estimate, estimate a visual -- it's a visual 25 estimate of how much area that chrysotile is taking</p>

<p style="text-align: right;">Page 184</p> <p>1 up.</p> <p>2 So, if I were to go to the very first</p> <p>3 sample and I were to measure the size of the</p> <p>4 chrysotile and measure the size of the entire</p> <p>5 picture, and then divide it out to see what</p> <p>6 percentage it is, it probably would be pretty close</p> <p>7 to what we found there.</p> <p>8 Q. Right. But could you walk me through</p> <p>9 what that process is? Like, are they doing an</p> <p>10 actual mathematical calculation, taking a</p> <p>11 measurement of a particle, taking a measurement of</p> <p>12 the field of view being analyzed, and then</p> <p>13 performing some sort of mathematical calculations to</p> <p>14 arrive at those figures?</p> <p>15 A. No, it's not. It's called a visual</p> <p>16 estimate, not a visual calculation. And that is the</p> <p>17 standard method for PLM. That's how you do it.</p> <p>18 Now, at these very low</p> <p>19 concentrations, 'cause you would never see anything</p> <p>20 like this in any asbestos-added products at this</p> <p>21 percentage, I think there's a difficult detection</p> <p>22 limit for a good microscopist was 0.1. So they make</p> <p>23 a visual estimate based on their experience.</p> <p>24 Q. Okay. But how does somebody make a</p> <p>25 visual estimate and differentiate between the</p>	<p style="text-align: right;">Page 186</p> <p>1 Q. I was going to say, that error rate</p> <p>2 isn't specific to this chrysotile by PLM?</p> <p>3 A. No. It's more specific. And,</p> <p>4 typically, NVLAP, they would send you a known</p> <p>5 sample, and you had a range of where it could be.</p> <p>6 You know, if it was 10 percent. And I forget what</p> <p>7 they allowed before they started knocking points</p> <p>8 off.</p> <p>9 Q. So, that is based on NVLAP</p> <p>10 accreditation, PLM analysis process in which there</p> <p>11 are known percentages of commercially added</p> <p>12 chrysotile in a bulk sample that are then sent out</p> <p>13 to a variety of labs to see what --</p> <p>14 A. Yes. It can be chrysotile, it can be</p> <p>15 amosite, what have you. And then they compare all</p> <p>16 the -- they compare all the labs, find the error</p> <p>17 rate, and then you have to be in their -- in the</p> <p>18 range of where the labs are hitting.</p> <p>19 Q. And as any lab accreditation for</p> <p>20 chrysotile in medium via PLM, those are typically</p> <p>21 concentrations of chrysotile that range from, you</p> <p>22 know, 10 percent down to .1 percent; we're not</p> <p>23 looking at, you know, .001 percent chrysotile as</p> <p>24 part of those NVLAP accreditation processes, right?</p> <p>25 A. I'm not sure they go down as low as</p>
<p style="text-align: right;">Page 185</p> <p>1 difference between, you know, 10,000th of a</p> <p>2 percentage, the difference between .0009 to .001</p> <p>3 versus the difference between .001 to .002?</p> <p>4 How is that analysis performed?</p> <p>5 A. It's literally his opinion about the</p> <p>6 range that he's looking at on the slide.</p> <p>7 If I were to do that, I would</p> <p>8 probably just round it off to the nearest, you know,</p> <p>9 number, but I don't tell him how to do it on their</p> <p>10 own. They have a lot more experience in looking at</p> <p>11 these than I do. So, it's just a visual estimate.</p> <p>12 It's their opinion.</p> <p>13 Q. And it's a qualitative number,</p> <p>14 qualitative assessment, right?</p> <p>15 A. A visual estimate -- it typically may</p> <p>16 have an error rate of .005 percent or something.</p> <p>17 They're all qualitative. Every time somebody does</p> <p>18 PLM and puts a weight percent down, it's called</p> <p>19 qualitative.</p> <p>20 Q. Okay. That error rate that you just</p> <p>21 referenced, where did you pull that from? That's</p> <p>22 not from your --</p> <p>23 A. It --</p> <p>24 (Court Reporter clarification.)</p> <p>25 BY MR. HYNES:</p>	<p style="text-align: right;">Page 187</p> <p>1 .1. But, no, this is not the type of accreditation.</p> <p>2 I've been told that they sent out one</p> <p>3 that was just Calidria, and 35 percent of the labs</p> <p>4 failed it. And I've been asked a lot, did we have</p> <p>5 that -- that pat round (phonetic), and, no, we could</p> <p>6 not find it.</p> <p>7 They say that 22262-1 PLM, there's a</p> <p>8 paragraph in there by Chatfield about the problem</p> <p>9 with the Calidria, people missing it because of its</p> <p>10 size.</p> <p>11 Q. When your analyst is doing this</p> <p>12 qualitative assessment of chrysotile percentages in</p> <p>13 Johnson's Baby Powder by PLM, they're not looking to</p> <p>14 any sort of area percent chart or reference images</p> <p>15 of a known concentration of chrysotile in talc at</p> <p>16 that given percentage as a reference point; this is</p> <p>17 simply an isolated review of that particular sample</p> <p>18 and assessing the overall percentage of chrysotile</p> <p>19 in that sample visually down to .001 percent or so.</p> <p>20 Is that the process?</p> <p>21 A. That's the process. You would never</p> <p>22 see anything like this or any of the -- you know,</p> <p>23 the round circle charts basically blocking out areas</p> <p>24 and say this is 10 percent, 20 percent, 30 percent.</p> <p>25 I mean, this is literally finding, you know, one or</p>

<p style="text-align: right;">Page 188</p> <p>1 two. I mean, we're looking at, in this one -- let's  2 see what it was. You know, 35 chrysotile structures  3 in 30 field of view. So you are basically looking  4 at one in each field of view, and they're very  5 small. And there must be one or two in here that  6 had two in field of views. You won't find anything  7 like this.</p> <p>8 I bet if we were to send out our  9 knowns, our SG-210 knowns to labs and say, you know,  10 Tell me how much chrysotile is in here, and not  11 telling them what it is, they would -- I would say  12 most of the -- most of the labs would miss it.</p> <p>13 Q. Okay. I also had some questions  14 about -- stay in the same report -- just a couple of  15 questions about sizes of the structures and how that  16 is determined by your PLM analyst.</p> <p>17 If we just go to the first PLM  18 photomicrograph in that report, M71211, Exhibit 11A,  19 I'm down to page 25 of the report.</p> <p>20 A. I've got it. Let me see. I've got  21 it. 10.4 microns.</p> <p>22 Q. Right. So I wanted to talk through  23 sort of the process through which your lab  24 determines the particle sizes of structures in PLM.  25 And so, if I'm looking here at this image on page</p>	<p style="text-align: right;">Page 190</p> <p>1 is go up and press the micron size, and he can click  2 on one end of the fiber or bundle, no fibers, PLM.  3 And to the other one, and it'll tell you its size.  4 So it's been calibrated.</p> <p>5 And this is before we switched over  6 to the new system, which we now just put the micron  7 bar at the bottom, and that's been calibrated, too.  8 And that's about the best I can help you with there  9 on that.</p> <p>10 Q. Okay.</p> <p>11 A. It's been calibrated and, you know,  12 so it's at a hundred X. You could take and measure  13 it now, and we'd have to account for the size of the  14 photograph. You could go back and back-calculate to  15 that, see if that's right for that magnification.</p> <p>16 Q. Okay. And these photographs that you  17 take in these Johnson &amp; Johnson chrysotile in talc  18 by PLM reports, are the photomicrographs always 10x  19 objective lens to get a good look at them side by  20 side?</p> <p>21 A. Yes. The dispersion staining lens is  22 always 10x. I have not gone in and started using  23 the much higher magnification yet.</p> <p>24 Q. Okay. And then the calibration  25 process, how did that -- is that something that</p>
<p style="text-align: right;">Page 189</p> <p>1 25, there's no scale bar on the image itself;  2 there's just a, you know, a little line underneath  3 the structure being analyzed, and it has the 10.4  4 microns listed there below it, right, for this  5 particular image?</p> <p>6 A. Correct.</p> <p>7 Q. Okay. And so, walk me through the  8 process through which your laboratory's PLM analyst  9 determines the size of the structures being analyzed  10 by PLM.</p> <p>11 Do they start this process by, like,  12 taking a photograph of Leica physical scale bar next  13 to this slide?</p> <p>14 Do they use, you know, a computer  15 program to help them determine what the potential  16 particle sizes are in the -- under the microscope at  17 that given time? Is it something else? I guess  18 just walk me through that process.</p> <p>19 A. So the answer to your question is  20 yes, this is when we -- this is with the Olympus  21 microscope. And we had it all digitize- -- had the  22 camera -- digital camera to a computer to a monitor,  23 and then it was calibrated in the program on the  24 different sizes, the microns.</p> <p>25 So really, all the analyst has to do</p>	<p style="text-align: right;">Page 191</p> <p>1 happened, you know, a long time ago and then you  2 continued to use that calibrated, you know, camera  3 and microscope setup for each analysis thereafter,  4 or is it something that happens each time an  5 analysis is performed? Walk me through that.</p> <p>6 A. It happened a long time ago. So, I  7 can't tell you on this one because this is the old  8 microscope.</p> <p>9 Q. Yeah.</p> <p>10 A. But you could go through and -- and  11 you can always tell the old microscope because the  12 micron bar is always right next to the structure  13 versus the new one where we just have it at the  14 bottom.</p> <p>15 Q. But I guess my question, so it's not  16 something -- it's a calibration process, whether  17 it's the old microscope or the new microscope, it's  18 not something that happens, you know, with every  19 analysis; it's something that happened at like a  20 singular point in time to prepare the calibration,  21 and then that calibration is used subsequently in  22 each analysis thereafter?</p> <p>23 A. The new is periodically checked, not  24 to use the word twice, but I'd have to check on  25 that. But you can go through and see that. If you</p>

<p style="text-align: right;">Page 192</p> <p>1 compare one to the other, all taken at the same  2 magnification on that, it matches up for the size  3 and what we say it is.  4 Q. Okay. And that calibration process,  5 did you -- does that involve sort of what I  6 described before, somebody, like, taking a  7 microscope 10x objective, and then having, like, a  8 micron bar or scale bar that's photographed under  9 the microscope at that size that then can be, I  10 guess, incorporated into the software, whatever you  11 use for the analysis, or is it some other process  12 that you go through for that calibration step?  13 A. The calibration step is a number of  14 ways. We do have micron -- known micron particles  15 that we use to calibrate the SEM that could be done  16 here too where you have 1 to 100 size. I think it's  17 a polymer microsphere. Never had an issue with it,  18 but I have to check on exactly what they're doing to  19 make sure it doesn't change. I can't help you with  20 this one anymore, that old one. I have to look what  21 they're doing with the new one.  22 Q. Okay. So I guess sitting here today,  23 you don't know what the calibration process was for  24 the old microscope that was used for the 71211 --  25 A. Well, it's -- the software itself was</p>	<p style="text-align: right;">Page 194</p> <p>1 it right, you can get it down to what you're seeing  2 here to validate that. I think that's what mostly  3 the PLM guys do. But again, I'll have to check on  4 it.  5 Q. Okay. And then that line that we see  6 on the image on page 25 of the report, M71211, is  7 that something that the analyst drew in, like, a  8 software program and then it automatically generated  9 the micron size, or was that something that they had  10 to physically --  11 A. That you've got to put in yourself.  12 You put the line in. When you click it on the other  13 side, it will tell you -- if you were to just run  14 that line over, you can see the micron bar getting  15 higher and higher and higher. Once you click it on  16 the other end, that's what it'll be showing there.  17 Q. Okay. And that's based on the --  18 sort of the software calibration that's been input  19 into the system prior to the analysis, right?  20 A. Yes. It's -- it's taking it off --  21 what the computer is seeing the image. And that was  22 put in when we changed that Olympus microscope over  23 to the high-definition camera with the -- with the  24 computer in the screen. It was a store-bought.  25 Now, with Leica, they just give you</p>
<p style="text-align: right;">Page 193</p> <p>1 calibrated to standards, so that, you know, when you  2 said it was 10 microns, it's going to be 10 microns.  3 How often it was recalibrated, I couldn't tell you.  4 Q. Okay.  5 A. The new one that's in the program  6 that Leica supplies, it will calibrate. And I don't  7 know how often they will look at slides that have  8 microspheres on them to make sure you know we're  9 getting the right size. I just have to check on  10 that.  11 Q. Okay.  12 A. Nobody has asked that question  13 before, so you're coming up with new stuff.  14 Q. And the -- so I guess sitting here  15 today, do you know whether or not as part of the  16 calibration of the old microscope or the new  17 microscope, you actually have, like, a physical  18 micron scale bar that was used as part of the  19 calibration process, or you just don't know sitting  20 here today?  21 A. Well, you don't have a micron bar.  22 You do have in the -- in the -- in the ocular lenses  23 at the top of it, you have a millimeter grid that  24 you can use. That's how we -- we use that, you  25 know, the size of the field of view. And if you do</p>	<p style="text-align: right;">Page 195</p> <p>1 everything.  2 Q. Okay. All right. And then has your  3 laboratory looked at the refractive indices of  4 antigorite at 1.550 refractive index oil in both  5 parallel and perpendicular orientation under central  6 stop dispersion staining?  7 A. We have.  8 Q. Do you have laboratory standards for  9 antigorite in those conditions?  10 A. We have it for antigorite, yes. So,  11 we haven't paid much attention to it because  12 everybody is saying we're misidentifying it as  13 fibrous talc.  14 Q. Um-hum.  15 A. And so, but we have run antigorite.  16 Q. And do you have photomicrographs of  17 that antigorite in PLM?  18 A. Yes, somewhere.  19 Q. Okay. I'll request --  20 A. You want those, too, right?  21 Q. I will request production of  22 antigorite by PLM 1.550 refractive index oil,  23 parallel and perpendicular orientation for the  24 micrographs at your lab.  25 Same question on lizardite. Has your</p>



<p style="text-align: right;">Page 204</p> <p>1 very front page will have something on there to help  2 me dig this up.  3 Let me get down to the date,  4 March 23rd. All right.  5 Q. I think it's all the Chinese-sourced  6 containers that were in your August 2017 eBay  7 report, if you recall that.  8 Okay. And so, we're just looking at  9 the results, but you reported out results in both  10 structures per gram and percent weight for  11 chrysotile in this report, right?  12 A. Yes.  13 Q. And the formula for the -- for  14 calculating the chrysotile structures per gram is  15 the same formula that we were looking at in the  16 M71211 report, same total area, same area in the 30  17 total fields of view that we were looking at the  18 last round, right?  19 A. Yes.  20 Q. Okay. And if we flip to the, you  21 know, the first PLM image, it looks like it's the  22 same microscope that you guys were using in that  23 last M71211 report, right?  24 A. Correct.  25 Q. All right. Then if we jump back in</p>	<p style="text-align: right;">Page 206</p> <p>1 A. Correct.  2 Q. And then one thing your lab  3 mentioned -- or you mentioned back in this report in  4 February 2020, that you were still working on the  5 heavy liquid density for chrysotile asbestos and by  6 TEM.  7 And it's still true that your lab has  8 not analyzed the Johnson &amp; Johnson Baby Powder  9 sample and reported results of chrysotile by TEM  10 using that method to date, right?  11 A. Correct.  12 Q. Okay. Then we go to Colley, which  13 I've marked. It's an April 6, 2020, report. M71046  14 is another --  15 A. I'm sorry. M71046?  16 Q. Right.  17 A. '46. What is that, 20- -- 2020?  18 Q. Yes, sir.  19 A. Okay. Thank you.  20 Q. You're welcome.  21 And I guess I should mention just  22 briefly, if we go back to the Zimmerman report that  23 was on a container, one of the containers in that  24 report was dated from 1994, right?  25 A. Correct.</p>
<p style="text-align: right;">Page 205</p> <p>1 time to Zimmerman, this is the February 24, 2020,  2 report on M70484. If we jump ahead to the method  3 here, you're again using a 2.72 liquid density  4 liquid for the separation here, right?  5 A. Correct.  6 Q. I think you're also doing the 500 RPM  7 for 10 minutes room temperature, and then another  8 round of 1800 RPM for 10 minutes at room temperature  9 centrifugation, right?  10 A. Correct.  11 Q. And in these first wave of, you know,  12 PLM analyses from 2020, your lab was just analyzing  13 the light fraction by PLM, right?  14 Sorry. Did you answer?  15 A. No. I'm just trying to read it.  16 I believe so.  17 Q. So the light fraction was analyzed,  18 right?  19 A. I believe so.  20 Q. And analyzed in 1.550 index oil?  21 A. Correct.  22 Q. And at this point in time your lab  23 was not yet reporting results in terms of structures  24 per gram, right? It was just limited to percent by  25 weight, right?</p>	<p style="text-align: right;">Page 207</p> <p>1 Q. And --  2 A. M70484-001 and M70484-002.  3 Q. And if a container is from 1994 and  4 it's the same talc that was originally in that  5 container, it most likely would have been sourced  6 from Vermont if it was a US market product, right?  7 A. 1994. Yes, that would be Vermont.  8 Q. Okay. Then, so we switch to Colley,  9 Exhibit 13B, that sample dates to 1996. It would  10 also be a Vermont source sample, right?  11 A. Yes.  12 Q. And if we go to the method here,  13 there's a different density liquid used for this  14 analysis than the other analyses we looked at  15 before, right? This one has a 2.70 versus a 2.72  16 liquid density used here, right?  17 A. Yeah. I thought I caught all those.  18 Those were typos. We've always used 2.72, as I  19 recall.  20 Q. Okay. So this is a typo. It would  21 have also been 2.72?  22 A. Yes. I think that's all we ever  23 used. I think we tried 2.70, you know, before we  24 figured out why the pellet.  25 Q. The centrifugation process is the</p>



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## 1 CERTIFICATE OF OFFICER

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3 I CERTIFY that the foregoing is a true  
4 and accurate transcript of the testimony and  
5 proceedings as reported stenographically by me at  
6 the time, place and on the date as hereinbefore set  
7 forth.

8 I DO FURTHER CERTIFY that I am neither  
9 a relative nor employee nor attorney or counsel of  
10 any of the parties to this action, and that I am  
11 neither a relative nor employee of such attorney or  
12 counsel, and that I am not financially interested in  
13 the action.

14



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16 ANDREA NOCKS, CCR, CRR

Certificate No. X100157300

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Certificate No. XR00011300

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